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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,844	12/31/2003	Anil Chatterji	C261 1070.1	2825
26158	7590 10/19/2006	•	EXAMI	INER
WOMBLE CARLYLE SANDRIDGE & RICE, PLLC			PUTTLITZ, KARL J	
ATTN: PATE	NT DOCKETING 32ND	FLOOR		
P.O. BOX 7037		ART UNIT	PAPER NUMBER	
ATI ANTA (CA 20257 0027		1621	

DATE MAILED: 10/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)				
	10/748,844	CHATTERJI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Karl J. Puttlitz	1621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 Fe	bruary 2006.					
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL. 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-21,29-40 and 42-49 is/are pending in the application. 4a) Of the above claim(s) See Continuation Sheet is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1, 2, 5, 8, 11, 14, 17-21, 29-31, 34-38, 44 and 47 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	e ,				

Continuation of Disposition of Claims: Claims withdrawn from consideration are 3,4,6,7,9,10,12,13,15,16,32,33,39,40,42,43,45,46,48 and 49.

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DETAILED ACTION

The outstanding claim objections are withdrawn in view of Applicant's amendments.

The outstanding rejections under section 112, second paragraph are withdrawn in view of Applicant's Amendments.

The rejection under Lehninger has been withdrawn in view of applicant's amendments.

The following prior art rejections are maintained and repeated below:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 5, 8, 11, 14, 17-21, 29-31, 34-38, 44 and 47 are rejected under 35 U.S.C. 102(b) as being anticipated by Dennis et al., "Ligand interactions at the active site of aspartate transcarbamoylase from Escherichia coli", Biochemistry (1986), 25(7), 1605-11 (Dennis).

Dennis teaches the following compounds:

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₩3 Na

See, for example, page 1607. Note that these compounds were prepared in less than 100%, suggesting presence of an amino acid starting material in the reaction product (claim 37).

The foregoing anticipates those compositions and compounds of the rejected claims within the meaning of section 102.

Notwithstanding applicant's remarks and amendments, the above compounds still anticipate the recited compounds.

Claim Rejections - 35 USC §§ 102, 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17-21 and 30 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Modi and Dennis.

The rejected claims cover those embodiments of the instant invention wherein the instant compounds or compositions wherein incubation of BM leukocyte precursors with different concentrations of the compound increases the cell surface densities of CD11c, CD80, CD54 and CD11c to various levels with maximum up regulation at 200 mM.

The rejected claims also cover those embodiments of the instant invention wherein the instant compounds or compositions give a fold increase in the levels of molecules of cells stimulated with either 15 ng/ml of GM-CSF or 200 mM of the synthetic compound at 48 h of incubation.

The rejected claims also cover those embodiments of the instant invention wherein the instant compounds or compositions are capable of inducing differentiation of dendritic cells and modulation of immune response controlled by dendritic cells.

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The rejected claims also cover those embodiments of the instant invention wherein the instant compounds or compositions are capable of more efficient and faster presentation of antigens to T-cells.

Neither Modi nor Dennis explicitly teach these aspects of the disclosed compounds. However, the requirements set forth in the rejected claims are properties of those compounds described by the applied references, and therefore, given the identity between the claimed compounds and those described in the applied references, these properties are anticipated or prima facie obvious, since separating a know compound from its properties is untenable, see M.P.E.P. 2112.01 ("Products of identical chemical composition can not have mutually exclusive properties." A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990) (Applicant argued that the claimed composition was a pressure sensitive adhesive containing a tacky polymer while the product of the reference was hard and abrasion resistant. "The Board correctly found that the virtual identity of monomers and procedures sufficed to support a prima facie case of unpatentability of Spada's polymer latexes for lack of novelty.").

The following is a new ground of rejection, necessitated by Applicant's amendment.

Claim Rejections - 35 USC § 112

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 17-21, 29 and 34-36 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

To satisfy the written-description requirement, the specification must describe every element of the claimed invention in sufficient detail so that one of ordinary skill in the art would recognize that the inventor possessed the claimed invention at the time of filing. *Vas-Cat*h, 935 F.3d at 1563; see also Lockwood v. American Airlines, Inc., 107 F.3d 1565, 1572 (Fed. Cir. 1997) (patent specification must describe an invention and do so in sufficient detail that one skilled in the art can clearly conclude that "the inventor invented the claimed invention"); *In re Gosteli*, 872 F.2d 1008, 1012 (Fed. Cir. 1989) ("the description must clearly allow persons of ordinary skill in the art to recognize that [the inventor] invented what is claimed").

Courts have stated that "[i]n claims involving [non-genetic] chemical materials, generic formulae *usually indicate with specificity what the genericclaims encompass*.

One skilled in the art can distinguish such a formula from others and *can identify many of the species* that the claims encompass. Accordingly, such a formula is normally an

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adequate description of the claimed genus." Eli Lilly & Co., 119 F.3d 1568, (emphasis added).

Here the claimed compounds have the proviso that if n is 2 and any R_1 or R_2 is SO_3H or $NHSO_3H$, the remaining R_1 and R_2 cannot be H. However, the specification does not covey a structural basis for these compounds which would show that the inventors possessed the claimed invention.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl J. Puttlitz whose telephone number is (571) 272-0645. The examiner can normally be reached on Monday to Friday from 9 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page, can be reached at telephone number (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl J. Puttlitz Assistant Examiner THURMAN K. PAGE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

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571-272-0602